QL
690
S4543
BIRD

SCOTTISH BIRDS

THE JOURNAL OF THE SCOTTISH ORNITHOLOGISTS' CLUB

SMITHSONIAN
OCT 08 1999
LIBRARIES

VOLUME 19
1997-98

EDITOR
S R D DA PRATO

Editorial Panel
I BAINBRIDGE, D JENKINS, M MARQUISS, J B NELSON AND R SWANN

ISSN 0036 9144

Index compiled by R C Dickson
with assistance from M A Ogilvie and M Osborne

Scottish Birds, the official journal of the Scottish Ornithologists' Club, publishes original material relating to ornithology in Scotland. Papers and notes should be sent to The Editor, *Scottish Birds,* 21 Regent Terrace, Edinburgh EH7 5BT.

Two issues of *Scottish Birds* are published each year, in June and in December. *Scottish Birds* is issued free to members of the Scottish Ornithologists' Club, who also receive the quarterly newsletter *Scottish Bird News*, the annual *Scottish Bird Report* and the annual *Raptor Round Up*. These are available to Institutions at a subscription rate (1997) of £36.

The Scottish Ornithologists' Club was formed in 1936 to encourage all aspects of ornithology in Scotland. It has local branches which meet in Aberdeen, Ayr, the Borders, Dumfries, Dundee, Edinburgh, Glasgow, Inverness, New Galloway, Orkney, St Andrews, Stirling, Stranraer and Thurso, each with its own programme of field meetings and winter lectures. The Waterston Library at the Club's headquarters at 21 Regent Terrace, Edinburgh EH7 5BT is the most comprehensive ornithological library in Scotland, and is available for reference during office hours (normally Monday to Friday, 0930-1630 hrs but please phone beforehand).

Published by the Scottish Ornithologists' Club,
21 Regent Terrace, Edinburgh EH7 5BT
Printed by Meigle Print, Block 11, Units 1 & 2,
Tweedbank Industrial Estate, Galashiels TD1 3RS

SCOTTISH BIRDS

Contents of Volume 19 1997 -1998

Number 1 June 1997

Page

Main papers

Distribution and abundance of Twites wintering in Caithness. *H Clark & R M Sellers* 1

The status of the Gannet in Scotland in 1994-95. *S Murray & S Wanless* 10

Gizzard contents of Pochard, Tufted Duck and Goldeneye from Loch Leven, Kinross, in winter 1994-95. *Barry Stewart & Alan Lauder* 28

Waterfowl counts on the Tay Estuary, 1985-1995. *N Elkins & B M Lynch* 36

Short notes

Nest site selection by Buzzards in mid Argyll. *Graham E Austin & David D Houston* 55

Obituaries

Malcolm Castle. *Roger Hissett* 58

Robert "Bobby" John Tulloch. *Frank Hamilton* 59

Vero Copner Wynne-Edwards. *J Morton Boyd* 61

Advice to contributors 64

Correcton *Scottish Birds 18(4)*

Human induced increases of Carrion Crows and gulls on Cairngorms plateaux. *Adam Watson* 64

Number 2 December 1997

Main papers

The illegal persecution of raptors in Scotland: a report from the Scottish Raptor Study Groups. 65

Movements of Fulmars from the Firth of Forth. *John C Davies* 86

A winter survey of sawbill ducks and Cormorants on the River Deveron, north east Scotland. *P J Cosgrove* 93

Declines in Turnstones and Purple Sandpipers wintering in south east Scotland. *H E M Dott* 101

Habitat use by Snow Buntings in Scotland from spring to autumn. *Adam Watson* 105

Short notes

Red-backed Shrike breeding records in Scotland. *R C Dickson* 114

Red-backed Shrike - summer records in Scotland. *John Young* 114

Ground nesting Treecreeper in Deeside. *Simon Gillings* 115

Numbers of Snow Buntings on arable land in north east Scotland. *A Watson & R Rae* 115

Capercaillie and Black Grouse south of Banff in the 1940s. *Adam Watson* 117

Reed Warblers breeding in south west Scotland. *Ken Bruce* 119

Inland Nesting by Razorbills. *M P Harris & S Wanless* 121

Hooded Warbler on St Kilda. *T J Dix* 123

Scavenging Merlins. *R C Dickson* 124
Buzzard robbing juvenile Peregrine of prey. *R C Dickson* 124
Interaction between Sparrowhawk and Jackdaw near Newtonmore, Highland. *P R Moore* 125
Mobbing of Waxwing by Chaffinches and Blue Tits. *S & M E Shimeld* 127
Waxwings feeding on Cowberries. *Ron Youngman* 127

Advice to contributors 128

Number 3 March 1998

Main papers
Observations at a winter Rook and Jackdaw roost in Aberdeenshire. *I S Francis* 129
The diet and foraging behaviour of the Red Kite in northern Scotland. *L Wildman, L O'Toole & R W Summers* 134
Breeding biology of Swallows in Easter Ross. *D P Butterfield & A D K Ramsay* 141
A survey of Storm Petrels on the Treshnish Isles in 1996. *G Gilbert, D Hemsley & M Shepherd* 145
The status of Storm Petrels on Mousa, Shetland. *N Ratcliffe, D Vaughan, C Whyte & M Shepherd* 154
Fish prey in the diet of Great Skuas at St Kilda. *D R Thompson, K C Hamer & R A Phillips* 160

Short notes
Common Buzzards cartwheeling during a food pass. *R C Dickson* 166
Cannibalism in a Merlin brood. *R C Dickson* 167
Mobbing behaviour by Barnacle Geese on a ground predator. *David J Patterson* 168
Marsh Warblers breeding in Orkney in 1993: a first for Scotland. *E R Meek, R G Adam & J Hadasch* 170
An unusually open Wigeon nest. *Raymond Duncan & Simon Foster* 172
Song Thrush apparently nesting on the ground. *D Macdonald* 173
Hunting times of Sparrowhawks in the non breeding season. *R C Dickson* 174
Merlin's sunning behaviour in winter. *R C Dickson* 176
Territory sizes of Crested Tits at Abernethy Forest, Strathspey. *R W Summers* 177
Baby Stoat in Peregrine nest. *R L Swann* 180
Oystercatcher incubating Lapwing clutch. *Tom Dougall* 181
Song Thrush predation on marine gastropods. *Alastair Pout* 182

Erratum
Scottish Birds 19:2 p108 Habitat use by Snow Buntings in Scotland from spring to autumn. *Adam Watson* 184

Advice to contributors 184

Number 4 June 1998

Main papers

Minimal numbers and habitat of breeding Dunlin in north east Scotland. *R Rae & A Watson* 185

Changes in breeding bird populations in peatlands and young forestry in north east Sutherland and Caithness between 1988 and 1995. *M Hancock & M Avery* 195

Numbers of wintering seaducks, divers and grebes in the Moray Firth, 1977-1995. *R J Evans* 206

Feeding studies of the Lesser Whitethroat in Strathclyde. *T Byars & D J Curtis* 223

The breeding bird community of upland Juniper scrub in eastern Scotland. *S Gillings & R J Fuller* 231

Seasonal differences in pellet remains from Golden Eagles in the Isle of Harris. *A C Pout* 239

Short notes

Inland Common Gull colonies in north east Scotland. *Adam Watson* 244

Hunting associations between Merlins and Hen Harriers. *R C Dickson* 245

Double brooding by Lapwings. *Andy Robinson* 246

Cormorant calls at a winter roost. *C J Henty* 247

Advice to contributors 248

Number 5 December 1998

Main papers

North east Scottish counts of Goldeneye, Goosander, Red-breasted Merganser and Cormorant in 1944-50 compared with 1988-97. *A Watson, M Marquiss & P J Cosgrove* 249

Amendments to the Scottish List. *R W Forrester, SBRC* 259

Winter habitats of Twites in Scotland. *H Clark & R M Sellers* 262

Movements of Twites in Scotland. *H Clark & R M Sellers* 270

Distribution and foraging habitat preferences of Choughs on The Oa peninsula, Islay. *M Madders, F M Leckie, J Watson & C R McKay* 280

Orkney Hen Harriers: a major population decline in the absence of persecution. *E R Meek, G W Rebecca, B Ribbands & K Fairclough* 290

Short notes

Last breeding by native Red Kites in Scotland. *H A McGhie & S A Moran* 300

Black Guillemot nesting on an operational car ferry. *C M Waltho* 301

Hen Harriers cacheing and retrieving prey. *R C Dickson* 302

Ravens nesting successfully on a specially provided platform *C J Booth* 303

Proposals to extend the range of the Crested Tit in Scotland, 1945-1955. *R A Lambert* 304

Letters
Numbers of Turnstones and Purple Sandpipers on the East Lothian Coast.
F Hamilton 306
Comment by *H E M Dott* 306

Obituaries
Valerie M Thom. *J Arnott* 307
J Morton Boyd. *D Jenkins* 310

Advice to contributors Inside back cover

INDEX TO VOLUME 19

Compiled by R C Dickson

The Scottish Bird Reports for 1995-96 (nos 28-29) and the 1996-97 Raptor Round Up are treated as supplements to Volume 19 but with separate pagination. Species mentioned in general articles and the species lists of the Scottish Bird Reports and the Raptor Round Up are not indexed.

Aberdeenshire 129
Abernethy Forest 177
Accipiter nisus 125, 174
Acrocephalus scirpaceus 119
Acrocephalus palustris 170
ADAM, R G see MEEK, E R 170
Alca torda 121
Anas penelope 172
Arenaria interpres 101
AUSTIN, G E & HOUSTON, D D Nest site selection by Buzzards in mid Argyll 55
Aquila chrysaetos 239
AVERY, M see HANCOCK, M 195
Aythya ferina 28
Aythya fuligula 28
Bombycilla garrulus 127
BOOTH, C J Ravens nesting successfully on a specially provided platform 303
Branta leucopsis 168
BRUCE, K Reed Warblers breeding in south west Scotland 119
Bucephala clangula 28, 249
Bunting, Snow habitat use in Scotland from spring to autumn 105
Bunting, Snow numbers in arable land in north east Scotland 115
Buteo buteo 55, 124, 166
BUTTERFIELD, D P & RAMSAY, A D K Breeding biology of Swallows in Easter Ross 141
Buzzard nest site selection in mid Argyll 55
Buzzard robbing juvenile Peregrine of prey 124
Buzzard cartwheeling during a food pass 166
BYARS, T & CURTIS, D J Feeding studies of the Lesser Whitethroat in Strathclyde 223
Calidris alpina 185
Calidris maritima 101
CAMERON, E D Raven nest on hydro-electric dam 299
Capercaillie and Black Grouse south of Banff in the 1940's 117
Carduelis flavirostris 1, 262, 270
Catharacta skua 160
Cepphus grylle 301
Certhia familiaris 115
Chaffinch mobbing Waxwings 127

Chough Distribution and foraging habitat preferences on the Oa peninsula, Islay 280
Circus cyaneus 245, 290, 302.
CLARK, H & SELLERS, R M Distribution and abundance of Twites wintering in Caithness 1
CLARK, H & SELLERS, R M Winter habitats of Twites in Scotland 262
CLARK, H & SELLERS, R M Movements of Twite in Scotland 270
Cormorant a winter survey on the River Deveron, north east Scotland 93
Cormorant calls at a winter roost 247
Cormorant North east Scottish counts in 1944-50 compared with 1988-97 249
Correspondence **HAMILTON, F** Numbers of Turnstones and Purple Sandpipers on the East Lothian Coast 306
DOTT, H E M Numbers of Turnstones and Purple Sandpipers on the East Lothian Coast 306
Corvus corax 299, 303
Corvus frugilegus 129
Corvus monedula 125, 129
COSGROVE, P J A winter survey of sawbill ducks and Cormorants on the River Deveron, north east Scotland 93
COSGROVE, P J see Watson, A 249
CURTIS, D J see BYARS, T 223
DAVIES, J C Movements of Fulmars in the Firth of Forth 86
DICKSON, R C Red-backed Shrike breeding records in Scotland 114
DICKSON, R C Scavenging Merlins 124
DICKSON, R C Buzzard robbing juvenile Peregrine of prey 124
DICKSON, R C Buzzards cartwheeling during a food pass 166
DICKSON, R C Cannibalism in a Merlin brood 167
DICKSON, R C Hunting times of Sparrowhawks in the non breeding season 174
DICKSON, R C Merlins sunning behaviour in winter 176
DICKSON, R C Hunting association between Merlins and Hen Harriers 245
DICKSON, R C Hen Harriers cacheing and retrieving prey 302
DIX, T J Hooded warbler on St Kilda 123
DOTT, H E M Declines of Turnstones and Purple Sandpipers wintering in south east Scotland 101
DOUGALL, T Oystercatcher incubating Lapwing clutch 181
Duck, Tufted gizzard contents from Loch Leven 28
DUNCAN, R & FOSTER, S An unusually open Wigeon nest 172
Dunlin minimal numbers and habitat in north east Scotland 185
Eagle, Golden seasonal differences in pellet remains in the Isle of Harris 239
ELKINS, N & LYNCH, B M Waterfowl counts on the Tay Estuary 1985-1995 36
Erratum Human induced increases of Carrion Crows and gulls on Cairngorms plateaux 64,
Habitat use by Snow Buntings in Scotland from spring to autumn 184
EVANS, R J Numbers of wintering sea ducks, divers and grebes in the Moray Firth, 1977 – 1995 206
FAIRCLOUGH, K see MEEK, E R 290
Falco columbarius 124, 167, 176, 245
Falco peregrinus 124, 180

Falcon, Peregrine Buzzard robbing juvenile of prey 124
Falcon, Peregrine baby stoat in nest 180
Firth of Forth 86
FORRESTER, R W Amendments to the Scottish List 259
FOSTER, S see DUNCAN, R 172
FRANCIS, I S Observations at a winter Rook and Jackdaw roost in Aberdeenshire 129
Fringilla coelebs 127
FULLER, R J see GILLINGS, S 231
Fulmar movements from the Firth of Forth 86
Fulmarius glacialis 86
Gannet status in Scotland in 1994-95 10
GILBERT, G, HEMSLEY, D & SHEPHERD, M A survey of Storm Petrels on the Treshnish Isles in 1996 145
GILLINGS, S & FULLER, R J Breeding bird communities of upland juniper scrub in eastern Scotland 231
GILLINGS, S Ground nesting Treecreeper in Deeside 115
Goldeneye gizzard contents from Loch Leven, Kinross, in winter 1994-95 28
Goldeneye north east Scottish counts in 1944-50 compared with 1988-97 249
Goosander a winter survey of sawbill ducks on the River Deveron 93
Goosander north east Scottish counts in 1944-50 compared with 1988-97 249
Goose, Barnacle mobbing behaviour on a ground predator 168
Grouse, Black and Capercaillie south of Banff in the 1940's 117
Guillemot, Black nesting on an operational car ferry 301
Gull, Common inland colonies in north east Scotland 244
HADASCH, J see MEEK, E R 170
Haematopus ostralegus 181
HAMER, K C see THOMPSON, D R 160
HANCOCK, M & AVERY, M Changes in breeding bird populations in peatlands and young forestry in north east Sutherland and Caithness between 1988 and 1995 195
Harrier, Hen hunting associations with Merlins 245
Harrier, Hen cacheing and retrieving prey 302
Harrier, Hen a major population decline in the absence of persecution in Orkney 290
HARRIS, M P & WANLESS, S Inland nesting by Razorbills 121
HEMSLEY, D see GILBERT, G 145
HENTY, C J Cormorant calls at a winter roost 247
Hirundo rustica 141
HOUSTON, D D see AUSTIN, G E 55
Hydrobates pelagicus 145, 154
Illegal persecution of raptors in Scotland 65
Jackdaw interaction with Sparrowhawk near Newtonmore 125
Jackdaw observations at a winter roost in Aberdeenshire 129
Juniper scrub breeding bird communities in eastern Scotland 231
Jynx torquilla 114
Kite, Red diet and foraging behaviour in northern Scotland 134
Kite, Red last native breeding in Scotland 300
Lanius collurio 114

Lapwing clutch incubated by Oystercatcher 181
Lapwing double brooding 246
Larus canus 244
LAMBERT, R A Proposals to extend the range of the Crested Tit in Scotland, 1945-55 304
LAUDER, A see STEWART, B 28
LECKIE, F M see MADDERS, M 280
LYNCH, B M see ELKINS, N 36
MACDONALD, D Song Thrush apparently nesting on the ground 173
MCGHIE, H A & MORAN, S A Last breeding by native Red Kites in Scotland 300
MCKAY, C R see MADDERS, M 280
MADDERS, M, LECKIE, F M, WATSON, J & MCKAY, C R Distribution and foraging habitat preferences of Choughs on the Oa peninsula in Islay 280
MARQUISS, M see WATSON, A 249
MEEK, E R, ADAM, R G & HADASCH, J Marsh Warblers breeding in Orkney in 1993: a first for Scotland 170
MEEK, E R, REBECCA, G W, RIBBANDS, B & FAIRCLOUGH, K Orkney Hen Harriers: a major population decline in the absence of persecution 290
Merganser, Red-breasted North east Scottish counts in 1944-50 compared with 1988-97 249
Mergus merganser 93, 249
Mergus serrator 93, 249
Merlin scavenging 124
Merlin cannibalism 167
Merlin sunning behaviour in winter 176
Merlin hunting associations between Merlins and Hen Harriers 245
Milvus milvus 134, 300
MOORE, P R Interaction between Sparrowhawk and Jackdaw near Newtonmore 125
MORAN, S A see MACGHIE, H A 300
Moray Firth 206
Morus bassanus 10
Mousa, Shetland 154
Movements of Fulmars from the Firth of Forth 86
MURRAY, S & WANLESS, S The status of the Gannet in Scotland in 1994-9510
Nest site selection by Buzzards in mid Argyll 55
Nesting inland by Razorbills 121
Obituary Malcolm CASTLE 58
Robert 'Bobby' John TULLOCH 59
Vero Copner WYNNE-EDWARDS 61
Valerie MacLaren THOM 307
John MORTON BOYD 310
O'TOOLE, L see WILDMAN, L 134
Oystercatcher incubating Lapwing clutch 181
Parus caeruleus 127
Parus cristatus 177, 304
PATTERSON, D J Mobbing behaviour by Barnacle Geese on a ground predator 168
Petrel , Storm a survey on the Treshnish Isles in 1996 145

Petrel , Storm the status on Mousa, Shetland 154
Phalacrocorax carbo 93, 247, 249
PHILLIPS, R A see THOMSON, D R 160
Plectrophenax nivalis 105, 115
Pochard gizzard contents from Loch Leven, Kinross, in winter 1994-9528
POUT, A C Seasonal differences in pellet remains from Golden Eagles in the Isle of Harris 239
POUT, A Song Thrush predation on marine gastropods 182
Pyrrhocorax pyrrhocorax 280
RAE, R see WATSON, A 115
RAE, R & WATSON, A Minimal numbers and habitat of breeding Dunlin in north east Scotland 185
RAMSAY, A D K see BUTTERFIELD, D P 141
Raptors illegal persecution in Scotland 65
RATCLIFFE, N, VAUGHAN, D, WHYTE, C & SHEPHERD, M The status of Storm Petrels on Mousa, Shetland 154
Raven nest on hydro electric dam 299
Raven nesting successfully on a specially provided platform 303
Razorbill inland nesting 121
REBECCA, G W see MEEK, E R 290
RIBBANDS, B see MEEK, E R 290
ROBINSON, A Double brooding by Lapwings 246
Rook observations at a winter roost in Aberdeenshire 129
Sandpiper, Purple decline in wintering numbers in south east Scotland 101
Sawbill ducks on the River Deveron, north east Scotland Winter survey 93
Scottish Birds Records Committee 259
Scottish List amendments to 259
SCOTTISH RAPTOR STUDY GROUPS Illegal persecution of raptors in Scotland 65
SELLERS, R M see CLARK, H 1, 262, 270
SHEPHERD, M see GILBERT, G 145
SHEPHERD, M see RATCLIFFE, N 154
SHIMELD, S & SHIMELD, M E Mobbing of Waxwing by Chaffinch and Blue Tits 127
SHIMELD, M E see SHIMELD, S 127
Shrike, Red-backed breeding records in Scotland 114
Shrike, Red-backed - summer records in Scotland 114
Skua, Great fish prey in the diet at St Kilda 160
Sparrowhawk interaction with Jackdaw near Newtonmore 125
Sparrowhawk hunting times in the non breeding season 174
STEWART, B & LAUDER, A Gizzard contents of Pochard, Tufted Duck and Goldeneye from Loch Leven, Kinross, in winter 1994-95 28
SUMMERS, R W see WILDMAN, L 134
SUMMERS, R W Territory sizes of Crested Tits at Abernethy Forest, Strathspey 177
Swallow breeding biology in Easter Ross 141
SWANN, R L Baby stoat in Peregrine nest 180
*Sylvia curruca*223
Tay Estuary waterfowl counts, 1985–1995 36
Tetrao tetrix 117

Tetrao urogallus 117
THOMPSON, D R, HAMER, K C & PHILLIPS, R A Fish prey in the diet of Great Skuas at St Kilda 160
Thrush, Song apparently nesting on the ground 173
Thrush, Song predation on marine gastropods 182
Tit, Blue mobbing Waxwing 127
Tit, Crested territory sizes at Abernethy Forest, Strathspey 177
Tit, Crested proposals to extend the range of the Crested Tit in Scotland, 1945-1955 304
Treecreeper ground nesting in Deeside 115
Treshnish Isles 145
Turdus philomelos 173, 182
Turnstone decline in numbers wintering in south east Scotland 101
Twite wintering distribution and abundance in Caithness 1
Twite winter habitats in Scotland 262
Twite movement in Scotland 270
Vanellus vanellus 181, 246
VAUGHAN, D see RATCLIFFE, N 154
WALTHO, C M Black Guillemot nesting on an operational car ferry 301
WANLESS, S see MURRAY, S 10
WANLESS, S see HARRIS, M P 121
Warbler, Hooded on St Kilda 123
Warbler, Marsh breeding in Orkney in 1993: a first for Scotland 170
Warbler, Reed breeding in south west Scotland 119
Waterfowl counts on the Tay Estuary 1985-1995 36
WATSON, A Habitat use by Snow Buntings in Scotland from spring to autumn 105
WATSON, A Capercaillie and Black Grouse south of Banff in the 1940's 117
WATSON, A Inland Common Gull colonies in north east Scotland 244
WATSON, A & RAE, R Numbers of Snow Buntings on arable land in north east Scotland 115
WATSON, A see RAE, R 185
WATSON, A, MARQUISS, M & COSGROVE, P J North east Scottish counts of Goldeneye, Goosander, Red-breasted Merganser and Cormorant in 1944-50 compared with 1988-97 249
WATSON, J see MADDERS, M 280
Waxwing mobbed by Chaffinches and Blue Tits 127
Waxwings feeding on cowberries 127
Whitethroat, Lesser feeding studies in Strathclyde 223
WHYTE, C see RATCLIFFE, N 154
Wigeon an unusually open nest 172
WILDMAN, L, O'TOOLE, L & SUMMERS, R W The diet and foraging behaviour of the Red Kite in northern Scotland 134
Wilsonia citrina 123
Wryneck 114
YOUNG, J Red-backed Shrike - summer records in Scotland 114
YOUNGMAN, R Waxwings feeding on Cowberries 127

SMITHSONIAN INSTITUTION LIBRARIES
3 9088 01698 7760